

SOUND SYSTEM AND METHOD FOR CAPTURING
AND REPRODUCING SOUNDS ORIGINATING
FROM A PLURALITY OF SOUND SOURCES

ABSTRACT

5 A sound system for capturing and reproducing sounds produced by
a plurality of sound sources. The system comprises a device for receiving sounds
produced by the plurality of sound sources and converting the separately received
sounds to a plurality of separate audio signals without mixing the audio signals.
The system may further comprise a device for separately storing the plurality of
10 separate audio signals on a recording medium without mixing the audio signals
and a device for reading the stored audio signals from the recording medium. The
system further includes a reproduction system for recreating the plurality of
separate audio signals. Also, the system comprises an amplification network
which comprises a plurality of amplifier systems, with one or more separate
15 amplifiers in each amplifier system for separately amplifying each of the separate
audio signals. The system also comprises a loudspeaker network which comprises
a plurality of loudspeaker systems with one or more separate loudspeakers in each
loudspeaker system for separately reproducing the plurality of audio signals. A
dynamic controller may be used to control the micro relationships of the
20 components within a signal path and the macro relationships among the separate
signal paths. The amplifiers and/or loudspeakers for each signal path may be
customized based on the characteristics and complexities of the original sound to
be reproduced on each signal path.